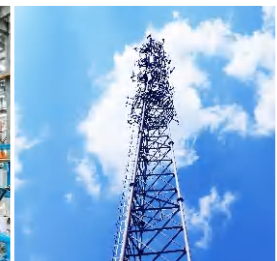


THOR

PROTECTOR OF LIGHTNING PROTECTION
– SINCE 2006 –

Catalogue Surge Protective Devices



Company Profile

THOR is a manufacturer specialised in the development and production of surge protective devices since 2006. THOR offers a complete range of SPDs, such as AC power SPD, PV system SPD, Signal and network SPD, Coaxial RF SPD, lightning rod, lightning box, etc.

THOR SPDs are applied to lightning protection in different low-voltage system fields, such as industry, solar power generation systems, telecommunications, network data centers, office buildings, and homes, etc.



Semi-automatic welding equipment

- Maintain consistent temperature of welding iron head
- Maintain consistent tin production during welding
- More precise welding positions
- Reduce false soldering caused by manual welding



Semi-automatic factory inspection pressure sensitive tester

- Accurately set the positive and negative tolerances for voltage and leakage current
- Supporting fixtures to improve testing efficiency
- If the detection data exceeds the set range, there is an alarm warning function
- MOV 100% factory inspection



Simulated lightning impact test bench (capable of meeting T2:120KA/T1:25KA)

- By simulating lightning stroke testing, the product's ability to withstand lightning current can be verified. It can guarantee the most reliable and safe high-quality products for users.



Enterprise Certificates

As a manufacturer of surge protective devices that pursues high quality, THOR invests a considerable proportion of its annual revenue in innovation, research and development, and international certification to meet the needs of customers in different fields, obtaining more and more certificates to ensure that our SPDs can be distributed in every corner of the world.



TRSB-Lightning rod

Lightning Rod is used for protecting the buildings to avoid lightning strike. Lightning rod grounding plays an important part of the air termination network of a lightning protection system.

Building Lightning Rod, alternate named lightning protection devices, used for protecting the building when raining and lightning. The lightning rod installed on the building and transfer the electric to earthing metal to protect the building. Our lightning rod comply with UNE 21.186 NFC 17. 102 or EN 50.164/1 EN 62.305 standard. Customized lightning rod available.

Working Principles:

During thunderstorm conditions when the lightning down-leader is approaching ground level, an upward leader may be created by any conductive surface. In the case of a passive lightning rod, the upward leader propagates only after a long period of charge reorganization. In the case of PDC series, the initiation time of an upward leader is greatly reduced. The PDC series generates controlled magnitude and frequency pulses at the tip of the terminal during high static fields characteristic prior to a lightning discharge. This enables the creation of an upward leader from the terminal that propagates towards the downward leader coming from the thundercloud.



Part I: Protection range of direct lightning arrester

Rolling ball radius(R):

Class I lightning protection building	30m(National buildings, arsenal, etc.)
Class II lightning protection building	45m (Government institutional units, etc.)
Class III lightning protection building	60m(civil buildings, etc.)

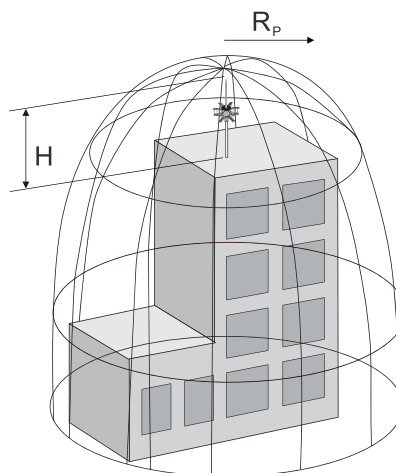
Part II : Selection of lightning protection type

Type	R	Lightning Rod height(h)/ protecting range (x)		
Class I	30m	30/30	15/25	10/22.3
Class II	45m	45/45	22.5/38	10/28
Class III	60m	60/60	30/51.9	10/33

Part III: Calculation of protecting range

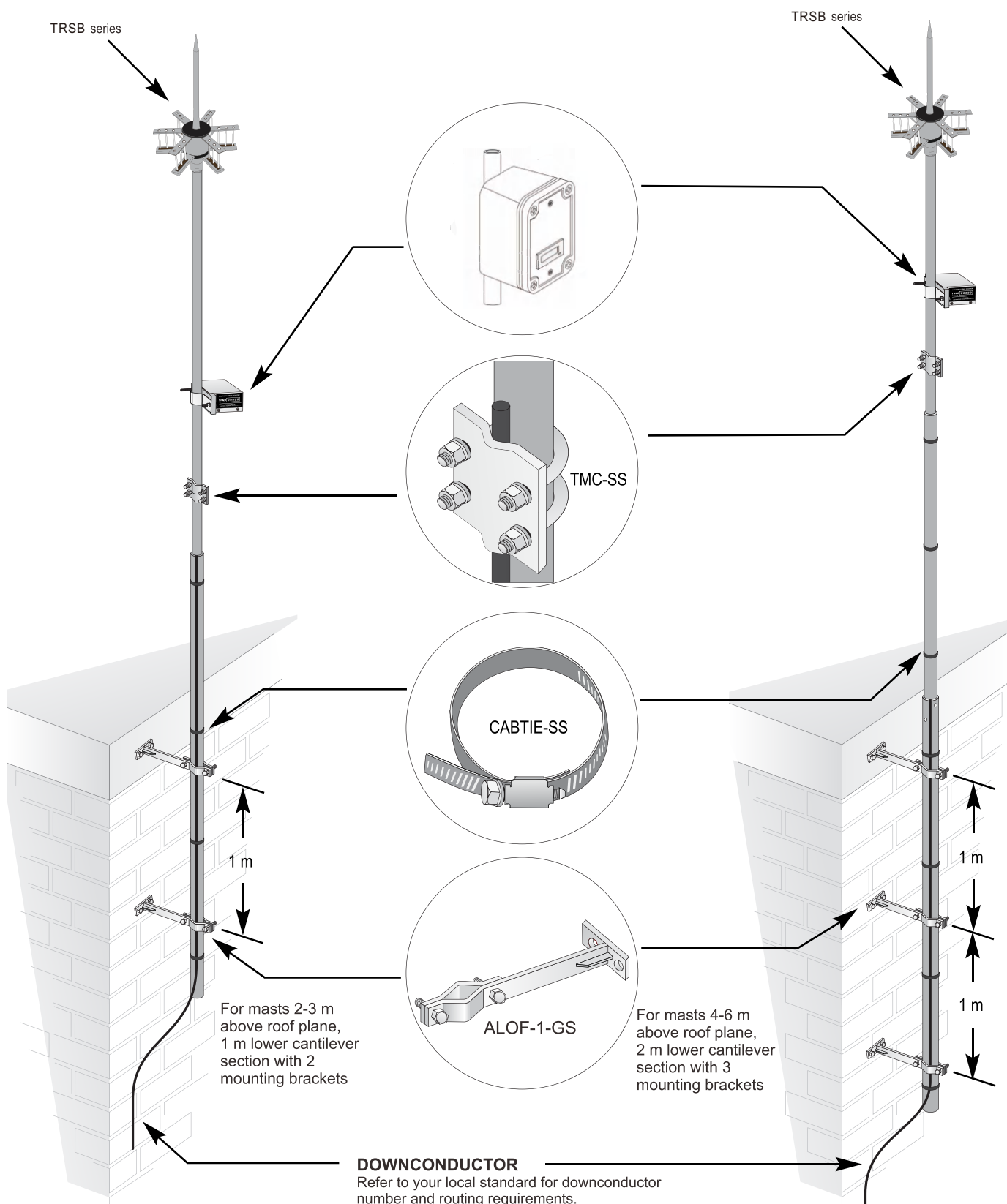
Protecting range	X
Lightning rod height	H
Rolling ball radius	R

$$\text{Protecting range } X = \sqrt{R^2 - (R-h)^2}$$



Typical MAST Installation Arrangement

■ For Cantilevered Mast





Cherish resources
Be kind to the environment



Zhejiang THOR Electric Co.,Ltd

ADD: Qianyangdong Industrial Zone Yueqing
Zhejiang Province,China Post code:325604

TEL: +86-577-6267 7705

Main Web: www.thorspd.com

Sub Web : www.thoreje.com

